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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,861	12/14/2001	Wei-Ge Chen	3382-61341	7175
26119 7:	590 02/10/2006		EXAMINER	
KLARQUIST SPARKMAN LLP 121 S.W. SALMON STREET			ARMSTRONG	, ANGELA A
SUITE 1600	WONGIREET		ART UNIT	PAPER NUMBER
PORTLAND,	OR 97204		2654	
			DATE MAILED: 02/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Asticus Commence	10/017,861	CHEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Angela A. Armstrong	2654			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	į				
1) Responsive to communication(s) filed on 11/07	7/05.				
,	action is non-final.				
-,-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	·				
Disposition of Claims					
4)⊠ Claim(s) <u>1-59</u> is/are pending in the application.	i				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-59 are subject to restriction and/or e	election requirement.				
Application Papers	:				
9) The specification is objected to by the Examine	: r				
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents					
3. Copies of the certified copies of the prior		ed in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
	•				
	: ·				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2)	Paper No(s)/Mail Da 5) Notice of Informal P	ate latent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:	, -7			

Application/Control Number: 10/017,861

Art Unit: 2654

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-54 drawn to quality measurement based on: reconstructing blocks of spectral data as critical band in a quantization loop classified in class 704, subclass 230; data normalization, classified in class 704, subclass 224; noise and excitation ratio measures and/or audio masking, classified in class 704, subclass 200.1 and/or 704/233; or frequency band weights, classified in class 704, subclass 200.1.
- II. Claims 55-59, drawn to an apparatus for providing a multi-channel transform to multi-channel audio and determining signal quality, classified in class 704, subclass 500.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because a plurality of audio quality measurement methods (as described in the various methods of quality measurement claimed or any other plurality of methods) may be used in the channel mode dependent quality measurement apparatus. The subcombination has separate utility such as methods of determining audio signal quality in a plurality of environments.

Art Unit: 2654

Because these inventions are distinct for the reasons given above and the search required for each group is not required for the other groups restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

If applicant elects Invention I, this application also contains claims directed to the following patentably distinct species of the claimed invention: Species 1) Claims 1-9 and 10-16 drawn to quality measurement based on reconstructing blocks of spectral data as critical band in a quantization loop; Species 2) Claims 17-22 and 23-28; Species 3) Claims 29-30 and 31-35, drawn to quality measurement based on noise and excitation ratio measures and/or audio masking; Species 4) Claims 36-42 and 43-54, drawn to quality measurement based on frequency band weights.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Response to Arguments

Applicant's election with traverse of Invention I in the reply filed on November 7, 2005 is acknowledged. The traversal is on the ground(s) that the subcombinations of Inventions I-IV were not shown to separately usable and that claims 29 and 30 should be grouped with claims 31-35. In response, the Examiner has issued a new election requirement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598.

The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A Armstrong Primary Examiner Art Unit 2654

AAA February 4, 2006